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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,756	03/23/2007	Stephen Wayne Beadle	2003B137/2	6639
Mahari A Car	7590 01/30/2008		EXAMINER	
Michael A Cromwell ExxonMobil Chemical Company			WITHERSPOON, SIKARL A	
P O Box 2149	P O Box 2149		ART UNIT	PAPER NUMBER
Baytown, TX 77522-2149			1621	
			MAIL DATE	DELIVERY MODE
			01/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

4	Application No.	Applicant(s)				
	10/582,756	BEADLE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sikarl A. Witherspoon	1621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>11 September 2007</u> .						
2a) This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-32 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-16 and 18-29</u> is/are allowed.						
6)⊠ Claim(s) <u>30-32</u> is/are rejected.						
7) Claim(s) <u>17</u> is/are objected to.	r alastian raquiroment					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>13 June 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Ll Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/30/06.	5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 30 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by GB 643,503.

The reference discloses an apparatus consisting of a series of two reactors suitable for a hydroformylation reaction, a means for removal of catalyst residues from the hydroformylation product, a reactor for hydrogenation of catalyst-free hydroformylation product, a means for recycling unreacted hydrogen from hydrogenation stage to second hydroformylation, and a means for recycling unreacted hydroformylation gases (see fig. 1-3 and description thereof). This apparatus anticipates the instant claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over GB 643,502.

The instant claim limits the apparatus to one constructed of duplex stainless steel. The reference does not expressly teach what the apparatus taught therein is made of. However, since duplex stainless steel is well-known to be pressure resistant, it would have been obvious to a person having ordinary skill in the art to use an apparatus comprising said material if the reaction conditions of a given process deemed it so necessary.

Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record is replete with hydroformylation reactions using multiple reactors under recycle conditions. However, there is nothing taught in the art that would have led a person having ordinary skill in the art to separate an offgas having a concentration of carbon monoxide, from a hydroformylation product, wherein said offgas has a partial pressure of greater than 7 barg. This limitation, according to the instant specification limits the amount of catalytic plating of the reactor, which impedes production in the hydroformylation reaction.

Claim Objections

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Claim 17 is objected to because of the following informalities: line 1 of the claim has a letter "t" that is out of place. Also, the claim should conform to proper Markush language. Appropriate correction is required.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikarl A. Witherspoon whose telephone number is 571-272-0649. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sikarl A. Witherspoon PRIMARY EXAMINER

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